- 1. (Amended) A method of [killing] reducing the growth rate of a cell, comprising contacting [a] said cell with (a) a [p53 protein or] gene encoding a functional p53 protein and (b) a DNA damaging agent in a combined amount effective to kill said cell.
- 2. (Amended) The method of claim 1, wherein said cell is contacted with [a p53 protein or] said gene in combination with X-ray radiation, UV-irradiation, γ-irradiation, microwaves, adriamycin, 5-fluorouracil, etoposide, camptothecin, actinomycin-D, mytomycin C, or cisplatin.
- 3. (Amended) The method of claim 2, wherein said cell is contacted with [a p53 protein or] said gene in combination with cisplatin.
- 4. (Twice amended) The method of claim 1, wherein said cell is contacted with a recombinant[, non-viral] vector that expresses a <u>functional</u> p53 protein in said cell in combination with a DNA damaging agent.
- 5. (Twice amended) The method of claim 4, wherein said p53-expressing recombinant, non-viral vector is a naked DNA plasmid or a plasmid within a liposome, a retroviral vector, an AAV vector, or a recombinant adenoviral vector.
- 7. (Twice amended) The method of claim 4, wherein said p53-expressing recombinant[, non-viral] vector comprises a p53 expression region positioned under the control of a constitutive promoter.

22 8. Carta (Twice amended) The method of claim 4, wherein said recombinant[, non-viral] vector comprises a p53 expression region, the cytomegalovirus IE promoter and the SV40 early polyadenylation signal.

- 12. (Amended) The method of claim 1, wherein said cell is first contacted with [a p53 protein or] said gene and is subsequently contacted with [a] said DNA damaging agent.
- 13. (Amended) The method of claim 1, wherein said cell is first contacted with [a] said DNA damaging agent and is subsequently contacted with [a p53 protein or] said gene.
- 14. (Amended) The method of claim 1, wherein said cell is simultaneously contacted with [a p53 protein or] said gene and [a] said DNA damaging agent.
- 15. (Amended) The method of claim 1, wherein said cell is contacted with a first composition comprising [a p53 protein or] said gene and a second composition comprising [a] said

 DNA damaging agent.

17. (Amended) The method of claim 1, wherein said cell is contacted with a single composition comprising [a p53 protein or] said gene in combination with [a] said DNA damaging agent.

(Amended) The method of claim 1/2, wherein said cell is contacted with a single composition comprising a recombinant vector that expresses p53 in said cell in combination with [a] said DNA damaging agent.

(Amended) The method of claim 19, wherein said cell is contacted with a single composition comprising a recombinant adenovirus containing a recombinant vector that expresses p53 in said cell in combination with [a] said DNA damaging agent.

22. (Amended) The method of claim [1], wherein said tumor cell is a malignant cell.

23. (Amended) The method of claim 22, wherein said <u>malignant</u> cell is a lung cancer cell.

24. (Amended) The method of claim 22, wherein said <u>malignant</u> cell is a breast cancer cell.

(Amended) The method of claim 22, wherein said <u>malignant</u> cell has a mutation in a p53 gene.

(Twice amended) The method of claim 21, wherein said <u>tumor</u> cell is located within an animal at a tumor site [and said p53 protein or gene and DNA damaging agent are administered to the animal in a pharmacologically acceptable form].

26.

- 32. (Amended) A composition comprising a [p53 protein or] gene encoding a functional p53 polypeptide in combination with a DNA damaging agent.
- 33. (Amended) The composition of claim 32, comprising [a p53 protein or] said gene in combination with adriamycin, 5-fluorouracil, etoposide, camptothecin, actimomycin-D, mitomycin C, or cisplatin.
- 34. (Amended) The composition of claim 33, comprising [a p53 protein or] said gene in combination with cisplatin.
- 35. (Amended) The composition of claim 32, comprising a recombinant vector that expresses a <u>functional</u> p53 protein in an animal cell in combination with a DNA damaging agent.
- (Amended) A therapeutic kit comprising, in suitable container means, a pharmaceutical formulation of a recombinant vector that expresses a <u>functional</u> p53 protein in an animal cell and a pharmaceutical formulation of a DNA damaging agent.
 - 77. (Amended) The method of claim 4, wherein said [vector] gene is administered prior to said DNA damaging agent.
 - 78. (Amended) The method of claim 4, wherein said [vector] gene is administered after said DNA damaging agent.

Cont 79.

(Amended) The method of claim 4, wherein said [vector] gene is administered at the same time as said DNA damaging agent.

83. 83.

(Amended) The method of claim [28] <u>26</u>, wherein said [vector] <u>gene</u> is delivered endoscopically, intravenously, intratracheally, intralesionally, percutaneously or subcutaneously.

84. (Amended) The method of claim [28] 26, wherein said tumor site is a resected tumor bed.

85. (Amended) The method of claim [28] 26, wherein said administration is repeated.

Subject 86.

(Amended) The method of claim [81] 13, wherein the period between administration of the DNA damaging agent and [vector] gene is between 12 and 24 hours.

- 87. (Amended) The method of claim [81] 13, wherein the period between administration of the DNA damaging agent and [vector] gene is between 6 and 12 hours.
- 88. (Amended) The method of claim [81] 13, wherein the period between administration of the DNA damaging agent and [vector] gene is about 12 hours.
- 89. (Amended) The method of claim [80] 12, wherein the period between administration of the [vector] gene and DNA damaging agent is between 12 and 24 hours.

	90.	(Amended) The method of claim [80] 12, wherein the period between administration of
10	112	the vector and DNA damaging agent is between 6 and 12 hours.
CLA	For	ω
Com	91.	(Amended) The method of claim [80] 12, wherein the period between administration of the vector and DNA damaging agent is about 12 hours
,		the vector and DNA damaging agent is about 12 hours.
\ 4 B D ,	96.	(Amended) The method of claim [28] 21, wherein said tumor cell is an epithelial tumor
1		cell.
C^{II}	, -	1
	97.	(Amended) The method of claim [95] 23, wherein said lung cancer cell is non-small cell
		lung carcinoma cell.
	HT. 7	(Amended) The method of claim [28] <u>26</u> , wherein said [vector] gene is administered in
		about 0.1 ml.
012	4 '	7
U	M2.	(Amended) The method of claim [28] <u>26</u> , wherein said [vector] gene is administered in
		about 10 ml.
	127.	(Amended) The method of claim [7] 4, wherein said promoter is a [constitutive] promoter.
.13		
C'	128. g	(Amended) The method of claim [127] 7, wherein the promoter is selected from the group

consisting of SV40, CMV and RSV.